

<https://www.freecodecamp.org/learn/data-analysis-with-python/>

Data Analysis has been around for a long time. But up until a few years ago, developers practiced it using expensive, closed-source tools like Tableau. But recently, Python, SQL, and other open libraries have changed Data Analysis forever.

In the Data Analysis with Python Certification, you'll learn the fundamentals of data analysis with Python. By the end of this certification, you'll know how to read data from sources like CSVs and SQL, and how to use libraries like Numpy, Pandas, Matplotlib, and Seaborn to process and visualize data.

Courses

Data Analysis with Python

In these comprehensive video courses, created by Santiago Basulto, you will learn the whole process of data analysis. You'll be reading data from multiple sources (CSV, SQL, Excel), process that data using NumPy and Pandas, and visualize it using Matplotlib and Seaborn,

Additionally, we've included a thorough Jupyter Notebook course, and a quick Python reference to refresh your programming skills.

Collapse courseData Analysis with Python

Not Passed

Introduction to Data Analysis

Not Passed

Data Analysis Example A

Not Passed

Data Analysis Example B

Not Passed

How to use Jupyter Notebooks Intro

Not Passed

Jupyter Notebooks Cells

Not Passed

Jupyter Notebooks Importing and Exporting Data

Not Passed

Numpy Introduction A

Not Passed

Numpy Introduction B

Not Passed

Numpy Arrays

Not Passed

Numpy Operations

Not Passed

Numpy Boolean Arrays

Not Passed

Numpy Algebra and Size

Not Passed

Pandas Introduction

Not Passed

Pandas Indexing and Conditional Selection

Not Passed

Pandas DataFrames

Not Passed

Pandas Conditional Selection and Modifying DataFrames

Not Passed

Pandas Creating Columns

Not Passed

Data Cleaning Introduction

Not Passed

Data Cleaning with DataFrames

Not Passed

Data Cleaning Duplicates

Not Passed

Data Cleaning and Visualizations

Not Passed

Reading Data Introduction

Not Passed

Reading Data CSV and TXT

Not Passed

Reading Data from Databases

Not Passed

Parsing HTML and Saving Data

Not Passed

Python Introduction

Not Passed

Python Functions and Collections

Not Passed

Python Iteration and Modules

Numpy

Learn the basics of the NumPy library in the following video course created by Keith Galli.

In this course, you'll learn how NumPy works and how it compares to Python's built-in lists. You'll also learn how to write code with NumPy, indexing, reshaping, applied statistics, and much more.

Expand courseNumpy

0/9

, 0 of 9 challenges completed

Data Analysis with Python Projects

There are many ways to analyze data with Python. By completing these projects, you will demonstrate that you have a good foundational knowledge of data analysis with Python.

Finish them all to claim your Data Analysis with Python certification.

Mean-Variance-Standard Deviation Calculator

Not Passed

Demographic Data Analyzer

Not Passed

Medical Data Visualizer

Not Passed

Page View Time Series Visualizer

Not Passed

Sea Level Predictor

Not Passed